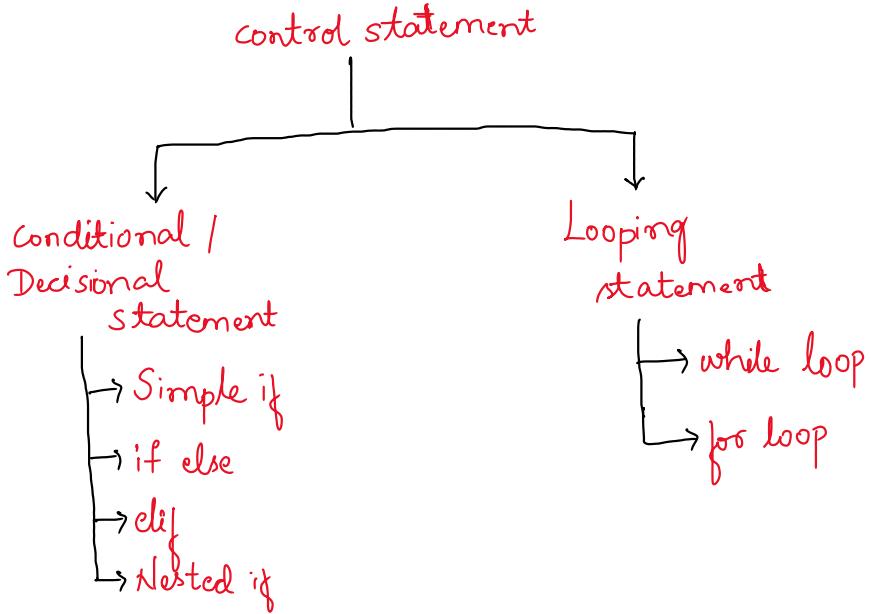


Day-16

Control Statement:

--- It is used to control the flow of execution.

Types:



Conditional Statement:

--- It is used to control the flow of execution based on conditions.

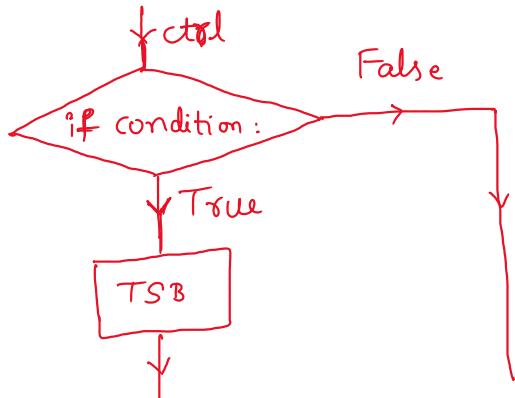
1) Simple if:

--- It is a keyword which is used to check the condition and it will execute the statement block if the condition is True or else it will ignore the statement block.

Syntax:

The diagram illustrates the structure of an if condition. On the left, the text "if condition :" is written above a double-headed arrow pointing between "1 Tab space" and a rectangular box. Inside the box, the text "True Statement block" is written.

Flow diagram:



Programs:

Simple if

WAP to check whether the number is even.

三

```

n = int(input('Enter the number: '))
if n%2 == 0:
    print('number is even') ""

# WAP to check whether the string has exactly 5 characters in it.
"""

s = input('Enter the string: ')
if len(s)==5:
    print('string has exactly 5 characters in it') ""

# WAP to check whether the number is greater than 200.
"""

n = int(input('Enter the number: '))
if n>200:
    print('number is greater than 200') ""

# WAP to print the square of the number only if it is multiple of 3.
"""

n = int(input('Enter the number: '))
if n%3==0:
    print('square of the number is: ',n**2) ""

# WAP to check whether the number is 2 digit number.
"""

n = int(input('Enter the number: '))
if n>=10 and n<=99:
    print('number is 2 digit number') ""

# WAP to check if the character is Uppercase.
"""

ch = input('Enter a character: ')
if 'A'<= ch <= 'Z':
    print('character is Uppercase') ""

```

2) if else:

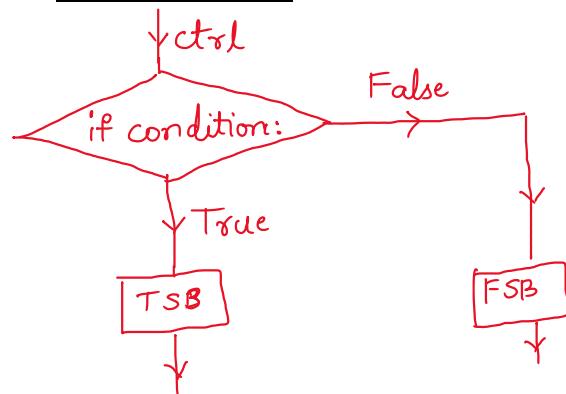
--- It is used to check the condition and it will execute the True Statement block if the condition is True else it will execute the False Statement block.

Syntax:

if condition :
 ↪ TSB

else:
 ↪ FSB

Flow diagram:



Programs:

```

# if else

# WAP to check the given data is float or not.
"""

data = eval(input('Enter the data: '))
if type(data)==float:
    print('given data is float')
else:
    print('given data is not float')"""


# WAP to check whether the string is palindrome or not.
"""

s = input('Enter the string: ')
if s==s[::-1]:
    print('string is palindrome')
else:
    print('string is not palindrome')"""


# WAP to check whether the given character is vowel or not.
"""

ch = input('Enter the character: ')
if ch in 'aeiouAEIOU':
    print('given character is vowel')
else:
    print('given character is not vowel')"""


# WAP to check whether the given data is SVDT or not.
"""

data = eval(input('Enter the data: '))
if type(data) in [int, float, complex, bool]:
    print('given data is SVDT')
else:
    print('given data is not SVDT')"""


# WAP to check whether the given integer is 3 digit number or not.
"""

n = abs(int(input('Enter the number: ')))
if 100<=n<=999:
    print('given integer is 3 digit number')
else:
    print('given integer is not 3 digit number')"""

```

Note:

abs (absolute function) - It will convert the negative numbers into positive numbers. If we already have positive number it will keep as it is.